

BARYKINA, V.V.

Harvest of myrtle whortlaberry. Priroda 50 no.7:125-126 J1 '61.
(MIRA 14:6)

1. Institut geografii AN SSSR, Moskva.
(Blueberries)

BARYLA, Kasimir, dr., potpukovnik

Protective and therapeutic value of BAL. Voj. san. pregl.,
Beogr. 11 no.5-6:183-193 May-June 54.

1. Interna klinika Vojnomedicinske akademije.
(DIMERCAPROL, ther. use
heavy metal pois.)
(POISONING
heavy metals, ther., dimercaprol)
(DIMERCAPROL
pharmacol.)

BARYLA, Kazimir, Pukovnik dr.; BINENFELD, Zlatko, major m-r ph

Clinical aspects and therapy of nerve gas poisoning.
Voj. san. pregl., Beogr. 13 no.1-2:34-39 Jan-Feb 56.

(CHEMICAL WARFARE,
nerve gas pois., clin. aspects & ther. (Ser))

BARYIA, Kazimir, sanitetski pukovnik d-r; BIMENFELD, Zlatko, sanitetski potpukovnik d-r m-r ph.; BOZIC, Vera, m-r ph.; STEVANOVIC, Mirko, sanitetski kapetan I klase m-r ph.; VOJVODIC, Vladimir, sanitetski porucnik d-r

Certain observations on the toxicity of pyridine-2-aldoxime methiodide. Voj. san. pregl., Beogr. 16 no.7-8:594-597 J1-Ag '59.

1. Vojnomedicinska akademija u Beogradu, Institut za toksikologiju.
(HYDROXYLAMINES toxicol.)
(PYRIDINES toxicol.)

VOJVODIC, Vladimir, san. porucnik d-r; STEVANOVIC, Mirko, san. kapetan I kl.
m-r ph.; BINENFELD, Zlatko, san. potpukovnik d-r m-r ph.; BARYLA,
Kazimir, san. pukovnik d-r

Acute toxicity of armin (ethyl-ethoxy phosphoryl p-nitrophenolate)
in white mice. Voj.san. pregl., Beogr. 17 no.4:400-402 Ap '60.

1. Institut za toksikologiju.
(PHOSPHINIC ACID rel. cpds)
(PARASYMPATHOMIMETICS, toxicol.)

VOJVODIC, V., sanitetski kapetan dr; GRBESA, B., sanitetski potpukovnik doc;
STEVANOVIC, M., sanitetski major dr mr ph; BINENFELD, Z., sanitetski
potpukovnik dr mr ph; GASIVODA, N., sanitetski kapetan I klase dr;
BARYLA, K., sanitetski pukovnik dr; BOZIC, V. mr ph.

Preliminary results with armin (ethyl-etoxy phosphoryl p-nitrophenolate)
in myasthenia gravis. Voj.san.pregl., Beogr. 17 no.11:1167-1170 N '60.

1. Vojnomedicinska Akademija u Beogradu, Insitut za toksikologiju,
Klinika za zivcane i dusevne bolesti.

(PARASYMPATHOMIMETICS ther)

(PHOSPHATES ther)

(MYASTHENIA GRAVIS ther)

BARYLA, K.

PHASE I BOOK EXPLANATION YUD/5509

Grubar, Ljubo, pub.

Atmosfera biološka hemijska oružje i zaštita; štimin klauzura (Atmosphere, Biological, and Chemical Weapons and Protection Against Them). Translation of the book by Grubar, Ljubo, pub. 1960. 426 p. No. of copies printed not given.

Authors of articles: Perla Serić, Academician, Milovan Vidmar, Engineer, Milorad Ristić, Doctor, Rado Ristić, Engineer, Milovan Vidmar, Engineer, Dragutin Milobor, Engineer, Rado Ristić, Doctor, Velimir Vuk, Doctor, Adam Milobor, Doctor, Čedomil Čedomil, Doctor, Milivoje Perić, Doctor, Svetolik Ristić, Engineer, Miljo Šuric, Engineer and Kasimir Baryla, Doctor.

PURPOSE: This collection of articles is intended for the general reader as well as for personnel in scientific research and similar organizations.

CONTENTS: The book contains 16 articles dealing with general problems of atomic, biological, and chemical warfare weapons and defense methods. The following topics are discussed: nuclear power, reactors, nuclear explosions (including their peaceful application), nuclear weapons, radiological protection and chemistry, some problems of the effect of nuclear radiation on the organism and of internal contamination by radioactive isotopes, problems of germ and chemical warfare, and the use of combat poisons. The Foreword was written by Major General Baryla. References follow most of the articles.

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Baryla, Kasimir, Doctor. Medical Aspects of the Use of Modern Combat Poisons	411

* [Djuric and Šuric are spelling variations; both forms are found in the book]

BARYLA, Mieczyslaw; FLORCZUK, Wieslaw; KROWCZYNSKI, Lech

Silicones containing groups NO_2 . Przem chem 41 no.2:105
F '62.

BARYLA, Stanislaw, mgr.

Annealing malleable cast iron in controlled gas atmospheres.
Przeegl odlew 13 no. 8/9:226-227 Ag-S '63.

ZASOWSKI, Andrzej; BARYLAK, Andrzej; WOHN, Andrzej

Preventive use of antibiotics in surgery. Pol. przegl. chir.
35 no.4:291-297 '63.

1. Z II Kliniki Chirurgicznej AM w Krakowie Kierownik: prof.
dr J. Ossacki.

(SURGERY, OPERATIVE) (ANTIBIOTICS)

~~BARYLEWSKI, V.~~ [Barylewski, V.], inzh. (Pol'skaya Narodnaya Respublika)

Marine engines. Mor.flot 21 no.6s40-41 Ja '61.

(MIRA 14:6)

(Puck--Marine engines)

BARYLKO, CZ.

"Bede inżynierem komunikacji. (Wyd. 1.) Warszawa (Naki. Państwowego Wydawn. Naukowego) 1953. 15 p. (I will be a communications engineer. illus.)"

SO: East European Accessions List, Vol 3, No. 8 Aug 1954.

BARYLKO-PIKIELNA, N.

Type of taste of a meat and attempts to artificially produce it. p. 423
Vol. 9, no. 10, Oct. 1955

PRZEMYSŁ SPOŻYWCZY

Warszawa

SOURCE: East European Accessions List (EEAL) LC. Vol. 5, no. 3, Mar. 1956

BARYLKO-PIKIELNA, NINA

POLAND/Chemical Technology - Chemical Products and Their
Application. Food Industry.

H-28

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26886

Author : Barylko-Pikielna Nina

Inst : -

Title : Taste Components of Meat.

Orig Pub : Przem. spozywczy, 1957, 11, No 1, 26-30

Abstract : On the basis of the work of Crocker (Crocker E.C., Food Research, 1948, 3, 13) an organoleptic study was made of 3 fractions of beef. It was ascertained that all fractions -- muscle fibers, water-soluble proteins and extractable substances participate in the formation of full taste of meat. Six components of meat taste have been determined: acid, salty, sweetish, tart, glutamic and bouillon, with a total taste amplitude of 2. Distribution and intensity of components in individual fractions are stated.

Card 1/2

" " POLAND/Chemical Technology - Chemical Products and Their
Application. Food Industry.

H-28

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26886

Data of Crocker to the effect that muscle fibers are the carrier of typical meat taste, have not been confirmed. The fibers were found to contain only the single glutamic component of characteristic meat taste, and that at the lowest intensity.

Card 2/2

- 80 -

POLAND / Chemical Technology. Food Industry.

H

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 75489.

Author : Til'gner, Barylko-Pikelnaya.

Inst : Not given.

Title : Uniform and Reproducible Results in the Organoleptic Evaluations of Products Carried Out by Professional Tasters.

Orig Pub: Przem. spozywczy, 1958, 12, No 4, 141-146.

Abstract: As the result of the experiments conducted, unsatisfactory individual reproducibility in evaluation was established, as well as the lack of uniformity in the evaluation of the quality of butter, meat and dairy products. The need for classified training of the tasters is pointed out.

Card 1/1

62

TILGNER, D.J.; BARYKO-PIKIELNA, N.

Effect of a method of establishing of the gustatory threshold on the result. Acta physiol.polon. 10 no.6:733-740 N-D '59.

1. Z Katedry Technologii Produktow Zwierzeceych Wydzialu Chemii Politechniki Gdanskiej. Kierownik: prof.dr D.J. Tilgner.
(TASTE physiol.)

TILGNER, D.J.; BARYKO-PIKIELNA, N.

The level of the threshold and the minimum of the gustatory sensitivity. Acta physiol.polon. 10 no.6:741-754 W-D '59.

1. Z Katedry Technologii Produktow Zwierzezych Wydzialu Chemii
Politechniki Gdanskiej; Kierownik: prof. dr D.J. Tilgner.
(TASTE physiol.)

Barylko-Pikielna, N. ; Tilgner, D.

Defects of various scoring methods in quality grading. p. 429.

PRZEMYSŁ SPOŻYWCZY. (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Przemysłu Spożywczego) Warszawa, Poland. Vol. 13, no. 10, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. ⁹no. 2, Feb. 19~~60~~.

Uncl.

BARYLKO-PIKIELNA, N.; ZOLTOWSKA, A.; KOSSAKOWSKA, T.; PIETRASZEK, Z.

An attempt of evaluating by objective measurements the organoleptic quality of selected examples of canned ham. Prac: instyt i labor bad przem spoz 12 no.1:1-10 '62.

1. Instytut Przemyslu Miesnego, Zaklad Technologii, Warszawa.

BARYLKO-PIKIEINA, Nina

Informative value of sensory sensitivity tests for quality analysts. Acta biol. med. (Gdansk) 8 no.1:115-135 '64

1. Department of Animal Products Technology, Technical University, Gdansk, (Head: prof. dr. Damazy Tilgner).

BRAUN, M.P.; BARYLO, I.G.

Fractographic and topographic methods for the study of metal fractures. Zav.lab. no.11:1334 '59. (MIRA 13:4)

1.Ukrainskaya Akademiya sel'skokhozyaystvennykh nauk.
(Metallography)

BARYLOV, G.

Engineers are patrons of workers. NTO 2 no.2:49-51 P '60.
(MIRA 13:5)

1. Predsedatel' soveta pervichnoy organizatsii Nauchno-
tekhnicheskogo obshchestva avtozavoda imeni Likhacheva.
(Moscow ~~Automobile~~ industry--Technological innovations)

BANYLOV, G.

Problem deserving attention. Avtom. svar. 16 no.6:86 Ja '63.
(MIRA 16:7)

1. Moskovskiy gorodskoy sovet narodnogo khozyaystva.
(Gas welding and cutting)

Konstruktsiya avtomobilya s vysshim stepenyu razvitiya i vysshim stepenyu razvitiya
Ikh razvitiya. Avtomob - Prom-st', 1949, No 9, C. 20-21.

SO: LETOPIS' No. 34

BOOK

CALL NO.: AF639674

Authors: BASOV, M. I., KAND. OF TECH. SCI., VOLNICHENKO, P. I., KAND.
OF TECH. SCI., BRAKHMAN, LA., ENG., STERNIN, VA. P., ENG.,
- KRYSINA, YE. V., Eng., Bol'shakov, V. M., Tech., BYCHKOV, P. P.,
Eng. BARYLOV, O. I.

Full Title: CUTTING TOOLS WITH HARD-ALLOY MULTIPLE BLADE INSERTS

Transliterated Title: Razbushchiye instrumenty s mnozolezviynymi
vstavkami iz tverdogo splava

PUBLISHING DATA

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of
Machine-Building Literature (Mashgiz)

Date: 1952

No. pp.: 110

No of copies: 8,000

Editorial Staff

Editor: BASOV, M. I., KAND. OF TECH. SCI.

TEXT DATA

Coverage: This monograph is the collective work of authors from the
Institute of the Organization of the Automobile Industry, the Gor'kiy
Automobile Plant im. Molotov (ZIM) and the Moscow Automobile Plant im.
Stalin (ZIS). The authors describe the designs of modern cutting tools
with hard-alloy multiple blade inserts, the results of their study and
experience with the tools' cutting properties, and the advantages of

1/2

On 06/06/2000, the following information was received from the source:

-10-10-10

these tools. Detailed descriptions of each tool type are given, with instructions for design, operation and practical use. The book contains data on the efficiency of the new tool designs in line production, and recommendations with reference to the operating conditions of these tools, as well as many illustrations, tables and diagrams. Of possible interest is the description of the electric spark technique on the OKB MSS single-circuit bench lathe used in the First State Bearing Plant im. Kaganovich (pp. 87-88, with illustrations).

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Ch. II Cutting Properties of Tools with Hard-Alloy Multiple Blade Inserts	59-79
(Cutters; Milling cutters)	
Ch. III Operation of Tools with Hard-Alloy Multiple Blade Inserts	80-89
(Preparing the inserts for the operation; Grinding the inserts)	

2/3

- Ch. IV Experience in Industrial Use of Tools with Hard-Alloy Multiple Blade Inserts 9-102
- Ch. V Efficiency of Use of Tools with Hard-Alloy Multiple Blade Inserts 103-109
- (Efficiency of use of: 1) cutters with prismatic inserts; 2) ZIM cutters with inserted plates; 3) Face milling cutters with cylindrical inserts; Increased efficiency of tools with hollow inserts)

Purpose: The book is intended for engineers, technicians and Stakhanovites in machine-building plants.

Facilities: "Orgavtoprom" (Organization of the Automobile Industry) Institute; ZIM (Gor'kiy Automobile Plant im. Molotov); SIS (Moscow Automobile Plant im. Stalin)

No. of Russian and Slavic References: None

Available: A. I. D., Library of Congress

3/3

ANTIPOV, K.K., inzhener; BARYGIN, G.I., inzhener; BERYSHKIN, A.D., inzhener;
 BERDICHEVSKIY, Ya.O., inzhener; BOBKOV, A.A., inzhener; KALININ,
 M.A., kandidat tekhnicheskikh nauk; KOVAN, V.M., doktor tekhnicheskikh nauk, professor; KORSAKOV, V.S., doktor tekhnicheskikh nauk;
 KOSILOVA, A.O., kandidat tekhnicheskikh nauk; KUDRYAVTSEV, N.T., doktor khimicheskikh nauk, professor; KURYSHEVA, Ye.S., inzhener;
 LAKHTIN, Yu.M., doktor tekhnicheskikh nauk, professor; MAYERMAN, M.S., inzhener; NOVIKOV, M.P., kandidat tekhnicheskikh nauk; PARTYSKIY, M.S., inzhener; PEREPONOV, M.M., inzhener; POPILOV, L.Ya., inzhener; POPOV, V.A., kandidat tekhnicheskikh nauk; SAVERIN, M.M., doktor tekhnicheskikh nauk, professor; SASOV, V.V., kandidat tekhnicheskikh nauk; SATUL, E.A., doktor tekhnicheskikh nauk, professor;
 SOKOLOVSKIY, A.P., doktor tekhnicheskikh nauk, professor [deceased]; STANKSVICH, V.G., inzhener; FRUMIN, Yu.L., inzhener; KHRANOV, M.I., inzhener; TSEITLIN, L.B., inzhener; SHUKHOV, Yu.V., kandidat tekhnicheskikh nauk; BABIN, S.I., kandidat tekhnicheskikh nauk; VOLKOV, S.I., kandidat tekhnicheskikh nauk; GORODETSKIY, I.Ye., doktor tekhnicheskikh nauk, professor; GOROSHEIN, A.K., inzhener; DOSCHATOV, V.V., kandidat tekhnicheskikh nauk; ZAMALIN, V.S., inzhener; ISAYEV, A.I., doktor tekhnicheskikh nauk, professor; KEDROV, S.M., kandidat tekhnicheskikh nauk; MALOV, A.M., kandidat tekhnicheskikh nauk; MARDANYAN, M.Ye., inzhener; PANGCHENKO, K.P., kandidat tekhnicheskikh nauk; SEKHETEV, D.M., inzhener; STAYEV, K.P., kandidat tekhnicheskikh nauk; SYROVATCHENKO, P.V., inzhener; TAURIN, G.B., inzhener; AL'YASHEVA, M.A., kandidat tekhnicheskikh nauk;

(Continued on next card)

ANTIPOV, K.P., inzh.; BALAKSHIN, B.S., prof., doktor tekhn.nauk; BARYLOV, G.I., inzh.; BEYZEL'MAN, R.D., inzh.; BERDICHEVSKIY, Ya.G., inzh.; BOBKOV, A.A., inzh.; KALININ, M.A., kand.tekhn.nauk; KOVAN, V.M., prof., doktor tekhn.nauk; KORSAKOV, V.S., doktor tekhn.nauk; KOSILOVA, A.G., kand.tekhn.nauk; KUDRYAVTSEV, N.T., prof., doktor khim.nauk; KURYSHOVA, Ye.S., inzh.; LAKHTIN, Yu.M., prof., doktor tekhn.nauk; NAYERMAN, M.S., inzh.; NOVIKOV, M.P., kand.tekhn.nauk; PARIYSKIY, M.S., inzh.; PEREPONOV, M.N., inzh.; POPILOV, L.Ya., inzh.; POPOV, V.A., kand.tekhn.nauk; SAVERIN, M.M., prof., doktor tekhn.nauk; SASOV, V.V., kand.tekhn.nauk; SATEL', E.A., prof., doktor tekhn.nauk; SOKOLOVSKIY, A.P., prof., doktor tekhn.nauk [deceased]; STANKOVICH, V.G., inzh.; FRUMIN, Yu.L., inzh.; KHRAMOV, M.I., inzh.; TSEYTLIN, L.B., inzh.; SHUKHOV, Yu.V., kand.tekhn.nauk; MARKUS, M.Ye., inzh., red. [deceased]; GRANOVSKIY, G.I., red.; DEM'YANYUK, P.S., red.; ZUBOK, V.N., red.; MALOV, A.N., red.; NOVIKOV, M.P., red.; CHARNO, D.V., red.; KARGANOV, V.G., inzh., red. graficheskikh rabot; SOKOLOVA, T.F., tekhn.red.

[Manual of a machinery designer and constructor; in two volumes] Spravochnik tekhnologa-mashinostroitelia; v dvukh tomakh. Glav. red. V.M.Kovan. Chleny red.soveta B.S.Balakshin i dr. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry. Vol.1. Pod red. A.G.Kosilovoi. 1958. 660 p. (MIRA 13:1)

(Mechanical engineering--Handbooks, manuals, etc.)

MEFANOV, V.I., MALINOV, Ye.I., BABYNIK, V.S.

Two-channel recorder of nuclear radiations on the basis of
the "TISS" universal radiometer. Med. rad. 8 no.8:66-71 Ag '63.
(MIRA 17:10)

Pat. 104102, 1.

High-draft roving frame type PA9. p. 367.

PRZEGLAD WLOKIENNICZY. (Stowarzyszenie Inzynierow i Technikow Przemyslu Wlokienniczego) Lodz, Poland. Vol. 13, No. 7, July 1959.

Monthly list of East European Accessions (EEAI) 10, Vol. 9, No. 2, Feb. 1959.

Uncl.

BARYMAWID, Wymiar, m, m.

The Wifama Textile Machine Works in Widzew. Przegl Mech 22
no.7/8:231-233 10-25 Ap '63.

1. Chief designer, Wifama Textile Machine Works, Widzew.

MIKHAYLOVSKIY, S.V., professor; MUZYKA, M.M., dotsent; BARYLYAK, R.A.,
dotsent; GUBINA, K.M.

Method of combined therapy for scleroma of the respiratory organs.
Vest.oto-rin. 17 no.1:61-62 Ja-F '55. (MIRA 8:5)

1. Iz kliniki bolezney ucha, gorla i nosa (saveduyushchiy - profes-
sor S.V.Mikhaylovskiy) i kafedry mikrobiologii (saveduyushchiy -
dotsent M.M.Muzyka) L'vovskogo meditsinskogo instituta.
(RESPIRATORY ORGANS--DISEASES)
(RHINOSCLEROMA)

ACCESSION NR: AP4021979

8/0073/64/030/002/0190/0194

AUTHOR: Zemlyanskiy, N. I.; Turkevich, V. V.; Murav'yev, I. V.; Bary*lyuk, V. V.

TITLE: Spectral characteristic of the P-S bond in certain dithiophosphates

SOURCE: Ukrainskiy khimicheskii zhurnal, v. 30, no. 2, 1964, 190-194

TOPIC TAGS: vibrational spectrum, IR spectrum, dithiophosphate, phosphorus sulfur double bond, alkyl dithiophosphate, acyl dithiophosphate, acyl dithiophosphate, frequency shift, phosphorus sulfur bond frequency, spectral analysis

ABSTRACT: The vibrational spectra of a number of dithiophosphates were studied to determine the possibility of applying such physical methods to the determination of molecular structures of these phosphorus organic compounds. The IR spectra in the 400-2400 cm^{-1} region of a series of alkyl and acyl derivatives of dithiophosphoric acid were examined; the position of the frequency of the P-S vibrations in these compounds was determined to be in the 640-680 cm^{-1} range. The additional environment of the P atom affects the vibration of the P-S bonds. The more electropositive the C atom bound to the S, the greater is the shift (up to

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1
ACCESSION NR: AP4021979

about 30 cm^{-1}) of the P₈ frequency to the long waves. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: L'vovskiy gosudarstvennyy universitet im. I. Franko (Lvov State University)

SUBMITTED: 28Feb63

DATE ACQ: 09Apr64

ENCL: 00

SUB CODE: PH

NO. REF. SOV: 010

OTHER: 009

Card

2/2

БАРИМОВ, Б.С., ред.; ФЕДОРОВА, В.В., техн. ред.

[Thirty years of the Chukchi National Area] 30 let Chukotskogo
natsional'nogo okruga; sbornik. Magadan, Magadanskoe knizhnoe
izd-vo, 1960. 68 p. (MIRA 14:9)
(Chukchi National Area—Social conditions)

L 19561-63 EWT(m)/BDS AFETC/ASD/AFWL
ACCESSION NR: AP3005693 S/0241/63/008/008/0066/0071
AUTHOR: Merkulov, V. S.; Martynova, Ye. Ye.; Barynin, V. A. * B
TITLE: Two channel nuclear radiation recorder¹⁷ built with a TISS
universal radiometer as a base¹⁰
SOURCE: Meditsinskaya radiologiya, v. 8, no. 8, 1963, 66-71
TOPIC TAGS: radiation recorder, two channels, TISS radiometer,
scintillator, counter
ABSTRACT: This new recorder is built with a TISS radiometer as a
base, and registers isotope radiation flows over two channels
simultaneously on a pointer indicator and a loop oscillograph. The
recorder includes two scintillator counters and a 20 meter cable for
distant measurements. All supplementary electric system elements are
mounted in the base for convenience of servicing. Alterations and
modifications of the TISS radiometer are described in detail. An
experimental model of this recorder has passed laboratory tests and
has been used for recording radiation intensities from two data units.
Orig. art. has 3 figs. and 2 supplements.
Card 1/2 /

L 16154-66 EWT(1)/T LJP(c) AT
ACC NR: AP6007229 SOURCE CODE: UR/0056/66/050/002/0472/0473

AUTHOR: Barynin, V. A.; Khokhlov, R. V.

ORG: Moscow State University (Moskovskiy gosudarstvennyy universitet)

TITLE: On the mechanism of laser-induced gas breakdown

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 2, 1966, 472-473

TOPIC TAGS: nonlinear optics, gas breakdown, laser induced breakdown, argon, helium, photoionization, ruby laser

ABSTRACT: The mechanism of laser-induced gas breakdown—cascade ionization—advanced theoretically by Ya. B. Zel'dovich and Yu. P. Rayzer (ZhETF, v. 47, no. 3, 1964, 1150) and based on the experimental data of Meyerhand and Haught (Phys. Rev. Letts., v. 11, no. 9, 1963, 401) would be defined more precisely if photoionization of molecules excited by electron impact were taken into consideration. The assumption that cascade ionization alone is responsible for gas breakdown indicates that the threshold ionization energy is proportional to the square of the frequency, which is at variance with the experimental data obtained by one of the authors and

Card 1/2

L 16154-66

ACC NR: AP6007229

his colleagues (S. A. Akhmanov, A. I. Kourigin, M. M. Strukov, R. V. Khoknirov, ZhETF, Pis'ma v redaktsiyu, Prilozheniye, 1, 1, 42, 1965). Also, comparison of the calculated and experimental data indicates that the higher the gas pressure, the more the computed breakdown fields exceed those achieved experimentally. Although this can be explained by nonuniform distribution of the radiation field, the authors show that such disagreement is practically nonexistent if photoionization of excited molecules is assumed. Two- and multi-photon ionization is neglected. The values of β , representing that part of the molecules excited by electron impact whose electron binding energy is $< \hbar\omega$, and values of the threshold field are tabulated for Ar and He at frequencies corresponding to the fundamental and second harmonic of a ruby laser. The frequency-dependence of threshold energy was explained in terms of a ratio of threshold energies at 2ω and ω , which without allowing for photoionization would be 4. The effect of β is higher the greater the gas pressure, and β increases with frequency. Thus, photoionization of electron-beam-excited molecules can be neglected only for low frequencies and pressures. Orig. art. has: 5 formulas. [YK]

SUB CODE: 20/ SUBM DATE: 13Aug65/ ORIG REF: 003/ OTH REF: 002/ ATD PRESS:

4204

SOKOLOVSKIY, P.I.; ODESSKIY, P.D.; URITSKIY, M.R.; BARYNINA, I.M.; CHERNASHKIN, V.G.; ROZENSHTeyN, I.M.; KISSEL', N.N.

Low-carbon Bessemer steel for structural elements. Prom.stroi. 42
no.7:29-32 '65. (MIRA 18:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy (for Barynina).
2. Nauchno-issledovatel'skiy institut po montazhnym i spetsial'nym stroitel'nym rabotam (for Rozenshteyn).
3. Zhdanovskiy metallurgicheskiy zavod im. Il'icha (for Kissel').

PAVLOV, S.M., inzh.; FREYGOFER, Ye.F., inzh.; SAYAPIN, Yu.I., inzh.; ZHDANOV,
L.G., inzh.; BARYNINA, Ye.Yu., kand.tekhn.nauk

Fully mechanized aggregate yards for year-round large concrete plants.
Prom.stroi. 37 no.8:26-34 Ag '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i
tekhnicheskoy pomoshchi stroitel'stvu (for Pavlov). 2. Gidroyekt
(for Sayapin, Freygofer, Zhdanov). 3. Nauchno-issledovatel'skiy insti-
tut stroitel'noy promyshlennosti (for Barynina).
(Concrete plants--Equipment and supplies)

BARYSAU, B.M.
ALEKSANDROVICH, Kh.M.; BARYSAU, B.M.

Ore dressing of sylvinites from the Starobin deposits by means
of hydrocyclones. Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.2:83-96
'57. (MIRA 11:1)

(White Russia--Sylvinite)
(Ore dressing)

BARYSAVA, M.

Our gift to the Party congress. Rab. i sial. 32 no. 2:5 F '56.

(MLRA 9:5)

1. Agranom kalgasa imya Kalinina Shchuchynskaga raena.
(White Russia--Collective Farms)

BARYSAVA, N.

RYATROVA, A.; BARYSAVA, N.

Who is to blame? Rab. 1 sial. 33 no. 8:22-23 Ag '57. (MLRA 10:8)
(Children--Management)

BARYSCH, G.

GERMANY/Chemical Technology - Chemical Products and Their
Application - Processes and Apparatus for
Chemical Technology.

H-2

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 8272

Author : Barysch G.

Inst : -

Title : Use of Fluorine-Containing Refrigerants in the German
Democratic Republic.

Orig Pub : Technik, 1957, 12, No 5, 396-398

Abstract : Physico-chemical characteristics of the most widely
utilized Freons are listed and purity requirements are
stated for Freon-12 and Freon-22, which are used as re-
frigerants in refrigeration units. A brief description
is given of the state of manufacturing of Freon refrige-
rants in the German Democratic Republic.

Card 1/1

AGULOV, Aleksey Pavlovich, kand.geol.-mineral.nauk, nauchnyy sotrudnik;
ALEKSEYEV, Aleksey Mikhaylovich, dotsent, nauchnyy sotrudnik;
BARYSH, Mariya Yakovlevna, inzh.-geolog, nauchnyy sotrudnik;
DOMORATSKIY, Nikolay Aleksandrovich, dotsent, nauchnyy sotrudnik;
LEVIN, Semen Timofeyevich, dotsent, nauchnyy sotrudnik; NESTERENKO,
Petr Grigor'yevich, prof., nauchnyy sotrudnik; SHIROKOV, Aleksandr
Zosimovich, prof., nauchnyy sotrudnik; SHPAKHLEK, Abram Grigor'yevich,
starshiy nauchnyy sotrudnik; OVCHAROVA, Z.G., red.isd-va; ROZENTSVEYG,
Ye.N., tekhn.red.

[Atlas of Donets Basin coals] Atlas uglei Dneprovskogo basseina.
Kiev, Izd-vo Akad.nauk USSR, 1960. 44 p.

(MIRA 13:12)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut
im. Artema (for all, except Ovcharova, Rozentsveyg). 2. Chlen-
korrespondent AN USSR (for Shirokov).
(Donets Basin--Coal geology)

NESTERENKO, Petr Grigor'yevich, nauchn. sotr.; ALEKSEYEV, Aleksey
Mikhaylovich, nauchn. sotr.[deceased]; AGULOV, Aleksey
Pavlovich, nauchn. sotr.; BARYSH, Mariya Yakovlevna,
nauchn. sotr.; BEL'GARD, Aleksandr Aleksandrovich, nauchn.
sotr.; DOMORATSKIY, Nikolay Aleksandrovich, nauchn. sotr.;
LESKEVICH, Ivan Yevseyevich, nauchn. sotr.; SHIROKOV,
Aleksandr Zosimovich, nauchn. sotr.; YAGOVDIK, Vladimir
Vikent'yevich, nauchn. sotr.; KOROLEVA, T.I., red.izd-va;
BOLDYREVA, Z.A., tekhn. red.

[Regularities of coal accumulation in the Dnieper lignite
basin] Zakonomernosti uglenakopleniya na territorii Dnepro-
petrovskogo burougol'nogo basseina. Moskva, Gosgortekhnizdat,
1963. 210 p. (MIRA 16:10)

1. Dnepropetrovsk. Dnepropetrovskiy gornyy institut.
(Dnieper basin--Coal geology)

BARYSH, Ye., inzh.

Problem of spare parts. Zashch. rast. ot vred. i bol. 10 no.3:
29-30 '65. (MIRA 19:1)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po
mashinam dlya khimicheskoy zashchity rasteniy L'vovskogo soveta
narodnogo khozyaystva.

BARUCHANSKAJA - SANDERSON

BC

a-1

Kinetics of photochemical synthesis in solutions of formaldehyde in ultra-violet light. A. S. ACHMATOV and F. S. BARUCHANSKAJA-LANDSBERG (J. Phys. Chem. U.S.S.R., 1935, 6, 83-91).—The amount of ppt. obtained by the interaction of aq. CH_2O with Benedict's solution in ultra-violet light was a linear function of the time of irradiation. No osazones of carbohydrates could be obtained. Ch. Ans. (a)

ASB-34 METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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3

Diffusion of light on the boundary of two liquids.
Haryshankar: Phys. Z. Sowjetunion 10, 647-5
(1938).-- See C. A. 31, 4208.

ASB-SLA DETALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
Dispersion of light on the boundary of two liquids. F. Haryshanskaya. <i>J. Exptl. Theoret. Phys.</i> (U. S. S. R.) 7, 81 (1977). — From the phase boundaries H₂O-phenol and H₂O-isobutyric acid, the intensity of dispersed light is given by $I \sim 1/\lambda^2$ where $n = 2$. F. H. Rathmann																																																			
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137 AND THE DODENT																									
PROCESSING AND PROPERTIES, 1001																									
Fluorescence in a layer of thickness comparable with wave length. P. S. Maryshanskaya. <i>Compt. rend. acad. sci. U. R. S. S.</i> 17, 99-102 (1937) (in French); cf. C. A. 33, 8273. Measurements of the intensity of fluorescence as a function of concn. in the fluorescent film were made on H₂O and MeOH solns. of fluorescein. Results are discussed in relation to previous theories. M. McMahon																									
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																									
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1ST AND 2ND DEGREE		PROCESSES AND PROPERTIES INDEX		10D AND 17M (CODES)																																	
Common Elements		Fluorescence in layers of a thickness comparable with the wave length. II. Polarization of fluorescence. F. S. Barythanskaya. <i>Compt. rend. acad. sci. U. R. S. S.</i> 10, 445-8(1936)(in French); cf. C. A. 31, 7334¹.—Solns. of fluorescein in water and in glycerol were studied, with concns. ranging from 10^{-4} to 3×10^{-4} g./cc. When the elec. vector is normal to the plane of incidence and the direction of observation is normal to it, polarization is observed only with glycerol solns. When the elec. vector lies in the plane of incidence, with the direction of observation still normal to it, the polarization is practically zero. S. L. Gerhardt																																			
Materials Index		ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION																																			
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M9

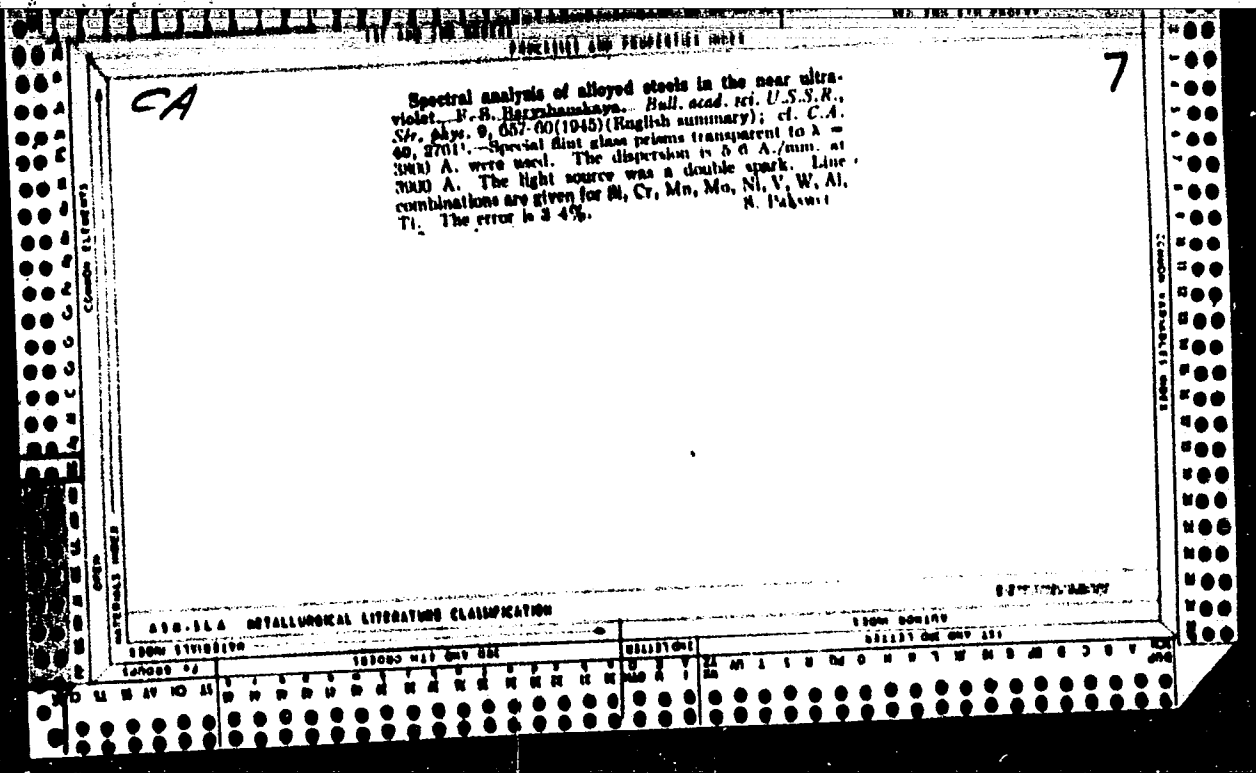
***Chromium Plating of Steel and Iron Ware in the Gaseous Phase.** N. S. Gorbunov and E. S. Ilarshanskaya (Comp. rend. (Bull. Acad. Sci. U.S.S.R. 1942, 27, (9), 277-280).—[In English.] The treatment of iron or steel samples with chromium chloride vapour at about 900° C. leads to formation of compact layers of chromium without porosity and without the sharp demarcation boundaries obtained in electroplating. In the process the dimensions of the treated article increase. The increase depends on the duration and tem-

perature of treatment, and should be allowed for in practice. Coating with chromium is possible for steels containing up to 1% of carbon, and gives surfaces which are resistant to corrosion and abrasion. Spectrographic analysis of layers at various depths from the surface after coating for 4 hrs. at 900° C. shows that the chromium content of the outermost layers is of the order 90.5%, falling to <5% at a depth of 40 μ .—O. V. R.

Colloid and Electrochemical Inst.

Physics Inst. im. P. N. Lebedev, Acad. Sci. USSR.

1943



[illegible]

BARYSHANSKAYA, F. S.

USSR/Crystals - Optical Properties
Light - Scattering

May 1946

"Combination Scattering of Light in Hydroxide Crystals in Relation to the Hydrogen Bond," G. S. Landsberg, F. S. Baryshanskaya, 12 pp

"Izv Ak Nauk Ser Fiz" Vol X, No 5/6

Molecular models showing distances in angstroms, in hydroxides of Mg, B, Li, etc.
Spectroscopic photographs. Schema of apparatus for studying scattering.

PA 12T77

BARYSHANSKAYA, F.

USSR/Light - Scattering
Crystallography

Feb 1947

"Light Scattering in Crystalline Hydroxides and the Hydrogen Bond," G. Landsberg,
F. Baryshanskaya, 11 pp

"Jour Physics USSR" Vol XI, No 2

A method for the investigation of the scattering spectra of fine crystalline powders,
making it possible to study the structure of the spectra of a considerable number of
anhydrous hydroxides and their hydrates.

PA 13T77

BARYSHANSKAYA, F. S.

USSR/Physics

Jul/Aug 47

Light - Dispersion

Crystals - Structure

"Composite Dispersion of Light in Crystalline Hydroxides and the Hydrogen Bonds," G. S. Landsberg, F. S. Baryshanskaya, 1 pp

"Iz Ak Nauk, Ser Fiz" Vol XI, No 4

The authors describe a method of investigating the diffusion spectra of thin crystalline powders, thus permitting the study of the spectral structure of OH-fluctuation along with anhydrous metal hydroxides and crystalline hydrates. This article is a summary of the original article which appeared in the 1946 No 10 issue of this journal. Submitted at the Inst Physisc imeni P. N. Lebedev, Acad Sci USSR.

PA 28^T79

BARYSHANSKAYA, F. S.

"Raman Effect in Crystalline Hydroxides and the Hydrogen Bond.,"
Iz. Ak. Nauk SSSR, vol. 11, No. 4, 1947.

BARISHANSKAYA, F. S.

PA 19/49794

USSR/Physics

Rochelle Salt

Light - Dispersion

Sep/Oct 48

"Light Dispersion in Piezoelectric Substances (Rochelle Salt Crystals) and the Hydrogen Bond," F. S. Barishanskaya, G. B. Landsberg, G. P. Kotulovich, Phys Inst Imeni P. N. Lebedev, Acad Sci USSR, 24 pp

"Iz Akad SSSR, Ser Fiz" Vol XII, No 5

First part describes dispersion of light in Belgotte's salt (Rochelle Salt). Second part is devoted to dispersion in H_2PO_4 and (NH_4)

19/49794

USSR/Physics (Contd.)

Sep/Oct 48

H_2PO_4 and its importance in theory of piezoelectricity (electrical phenomenon of Rochelle salt crystals, i.e., surface charges, oscillation, etc.)

19/49794

42040: BARYSHANSKAYA, F. S.; LANDSBERG, G. S.; MOTULEVICH, G. P. - Passeyaniye svera v segnetoelektrikakh i vodorodnaya svyaz' (Kratkoe sodержaniye doklada i preniy). Izvestiya akad. nauk SSSR. Seriya fiz. 1948, No. 5. S. 573-75. - Bibliogr: 8 nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948

"APPROVED FOR RELEASE: 06/06/2000

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APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203810011-5"

LANDSBERG, G.S., akad. [deceased]; MAYANTS, L.S., doktor fiziko-matem. nauk;
BATUYEV, M.I., doktor khim. nauk; BARYSHANSKAYA, P.S., kand. fiziko-
matem. nauk; STERIN, Kh.Ye., kand. fiziko-matem. nauk; ARANOVICH, P.M.,
kand. khim. nauk; HYALOVA, V.V., mlad. nauchnyy sotr.; ROTKOVA, S.V.,
mlad. nauchnyy sotr.; RABINOVICH, N.Ya., mlad. nauchnyy sotr.; BERK-
GAUT, V.G., red. izd-va; GOLUB', S.P., tekhn. red.

[Scattering of light and infrared spectroscopy; bibliographic index
for 1928-1940] Rasseyanie sveta i infrakrasnaia spektroskopiia;
bibliograficheskii ukazatel' 1928-1940. Moskva, Izd-vo Akad. nauk
SSSR, 1961. 451 p. (MIRA 14:11)

1. Akademiya nauk SSSR. Komissiya po spektroskopii. Sektor seti
spetsial'nykh bibliotek.
(Light—Scattering—Bibliography) (Spectrum, Infrared—Bibliography)

BARYSHEV, A.

Moscow Province achieved advance fulfillment of the plan.
Sel'.stroi. 11 no.1:3-5 Ja '56. (MLRA 9:6)

1.Nachal'nik Moskovskogo upravleniya po stroitel'stvu v
kolkhozakh.

(Moscow province--Farm buildings)

BARYSHEV, A.

Let's pool construction experience on collective farms. Sel'.strei. 11
no.8:5-6 Ag '56. (MLRA 9:10)

1.Nachal'nik Moskovskogo oblastnogo upravleniya po stroitel'stvu v
kolkhosakh.

(Farm buildings)

BARTSHEV, A.

On collective farm construction sites in Moscow Province. Sel'.
stroil. 13 no.6:3-4 Je '58. (MIRA 11:6)

1. Nachal'nik Moskovskogo oblastnogo upravleniya po stroitel'stvu v
kolkhozakh.

(Moscow Province--Farm building)

BARYSHEV, A.D.

For further improvement in capital construction. Gor.khoz.
Mosk. 36 no.1s7-9 Ja '62. (MIRA 16s1)

1. Nachal'nik Upravleniya kapital'nogo stroitel'stva
Ispolnitel'nogo komiteta Moskovskogo soвета deputatov
trudyashchikhsya.
(Moscow—Construction industry)

BARYSHEV, Aleksandr Dmitriyevich, inzh.; POLONSKIY, Iosif Vol'fovich;
RAZINKOV, P., red.; YAKOVLEVA, Ye., tekhn.red.

[Intercollective farm organization of building] Mezhhkolkhosnye
stroitel'nye organizatsii. Moskva, Mosk.rabochii, 1960. 109 p.
(MIRA 13:3)

(Farm buildings)

BARYSHEV, Aleksandr Dmitriyevich; MAZINKOV, I., red.; SHLYK, M., tekhn.
red.

[Local materials in rural construction] Mestnye materialy v sel'-
skom stroitel'stve. Moskva, Moskovskii rabochii, 1961. 118 p.
(MIRA 14:11)

(Building materials)

12(0)

AUTHORS:

Yevsyutin, S. N., Baryshev, A. I.

SOV/72-59-2-14/2:

TITLE:

Overhead Trolley for the Transportation of Products
(Podvesnoy put' dlya transportirovki izdeliy)

PERIODICAL:

Steklo i keramika, 1959, Nr 2, pp 41-42 (USSR)

ABSTRACT:

In the Chernyatinskiy Glass Works the products in the factory departments have hitherto been transported by means of common four-wheel carts, which was the cause of considerable waste. The chief-mechanic of the factory, V. D. Tsykunov, in cooperation with the authors of the present paper worked out and realized the design of a suspension one-rail track (Fig 1). The elaboration of a switch is shown in figure 2. The track along with a switch is inserted in the elevator booths to transport the products from one floor to another (Fig 3). The waste percentage has been markedly decreased by the introduction of the suspension track. The costs of the latter are amortized within a very short time. There are 3 figures.

Card 1/2

Overhead Trolley for the Transportation of Products SOV/72-59-2-14/21

ASSOCIATION: Chernyatinskiy stekol'nyy zavod (Chernyatinskiy Glass Works)

Card 2/2

PALANT, G.Ya., inzh.; BARYSHOV, A.I., inzh.

Vibrating underground conveyors. Ugol'. prom. no.6:64-65 N-D '62.
(MIRA 16:2)

1. Dongiprouglemash.
(Conveying machinery)

21.2000

27793
S/057'61/031/005/014/020
B104, 205

AUTHORS: Kheyfets, S. A. and Baryshev, A. I.

TITLE: Transition processes in an accelerating system, caused by injection of particles

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 5, 1961, 606-612

TEXT: A study has been made of the changes of amplitude, phase, and frequency of the accelerating voltage, which are caused by injection of particles. In doing so, the authors confined themselves to a continuous injection of particles. In this case, the formulas for the transition processes due to a pulsed injection can be derived from the formulas presented here for the transition $\delta \rightarrow \infty$. The variation of load in time is a characteristic feature of continuous injection. The losses suffered by accelerated and slowed down particles in a strongly focusing accelerator are equal. The time dependence of the load is given by $\alpha_n(t) = \alpha_n(1 - \exp(-\delta t))$ (1), and the phase shift caused by the rated current of the accelerator is found to be $\Delta\omega(t) = \Delta\omega(1 - \exp(-\delta t))$ (2).

Card 1/5

Transition processes in an...

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S/057/61/031/005/014/020
B104/B205

If the relations $\omega_H = \omega_0 + \Delta\omega$ and $\alpha_H = \alpha_0 + \alpha_n$ are valid (ω_0 and α_0 stand for the frequency and the decrement, respectively, up to injection), the variation of the accelerating voltage can be described by

$$u + 2(\alpha_H - \alpha_n e^{-\delta t})\dot{u} + (\omega_H^2 - \alpha_n^2 e^{-2\delta t})u = \frac{I_0 V_0}{C_0} \cos(\omega_0 t + \psi) \left(\dot{u} = \frac{du}{dt} \right). \quad (3)$$

Next, the authors derive the two conjugate complex roots

$$p = \frac{\alpha_H + \sqrt{\alpha_H^2 - \omega_H^2}}{\delta} \simeq \frac{\alpha_H + i\omega_H}{\delta}, \quad (10)$$

$$p^* = \frac{\alpha_H - \sqrt{\alpha_H^2 - \omega_H^2}}{\delta} \simeq \frac{\alpha_H - i\omega_H}{\delta}; \quad \alpha_H \ll \omega_H, \quad (11)$$

which offer two linearly independent solutions to (3). By variation of parameters one obtains

$$U_{\text{acctr.}} = \frac{\omega_0}{C_0} e^{-\alpha_H t} \left\{ \frac{F(\beta; \gamma; -\frac{2\alpha_n}{\delta} e^{-\delta t}) e^{i\omega_H t}}{\gamma_0} \times \right. \\ \left. \times \int_0^t I_0 F(\beta; \gamma; -\frac{2\alpha_n}{\delta} e^{-\delta t}) e^{i\omega_H t - \frac{2\alpha_n}{\delta}(1-e^{-\delta t}) - i\omega_H t} \cos(\omega_0 t + \psi) dt + \text{c. c.} \right\}. \quad (12)$$

Card 2/5

Transition processes in an...

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B104/B205

where V_0 is the Wronski equation of (3) at $t = 0$. As a general solution, one obtains

$$u = Ce^{-\gamma t} F\left(\beta; \gamma; -\frac{2\alpha_2}{\delta} e^{-\gamma t}\right) + C^* e^{-\gamma^* t} F\left(\beta^*; \gamma^*; -\frac{2\alpha_2}{\delta} e^{-\gamma^* t}\right) + u_{\text{partic}}(H)$$

Here, C and C^* are arbitrary constants which are to be determined from the initial conditions. It is evident that, if the accelerating system is adjusted to the frequency ω_0 without a load, the initial conditions for $\omega_H/\delta \gg 1$ are given by

$$u|_{t=0} = \frac{I_0}{2C_0\alpha_0} (1 - e^{-\alpha_0 t}) \sin \psi, \quad (B)$$

$$\dot{u}|_{t=0} = \frac{I_0\omega_0}{2C_0\alpha_0} (1 - e^{-\alpha_0 t}) \cos \psi.$$

Thus, the solution of (3) for $\omega/\delta > 1$ can be represented in the form $u = D(t) \cos[\omega_0 t + \Phi(t)]$ (13), where D is an envelope, and Φ is the phase of the accelerating voltage. If the reduced parameters $l = \alpha_n/\delta$; $m = \alpha_H/\delta$; $n = \Delta\omega/\delta$ are introduced, the two functions can be represented by

$$D(x) = \frac{I_0}{2C_0\alpha_0} e^{-(m+n+x)} \sqrt{(a_1 + a_2)^2 + (b_1 + b_2)^2}, \quad (14)$$

$$\Phi(x) = \psi + n(x + e^{-x}) - \arctg \frac{b_1 + b_2}{a_1 + a_2}, \quad (15)$$

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Transition processes in an...

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for which case the notations

$$a_1 = (1 - e^{-\alpha}) e^{\beta} \cos n, \quad (16)$$

$$b_1 = (1 - e^{-\alpha}) e^{\beta} \sin n, \quad (17)$$

$$a_2 = (m - l) \int_0^{\infty} e^{ms + i\tau - s} \cos(nx + ne^{-s}) dx, \quad (18)$$

$$b_2 = (m - l) \int_0^{\infty} e^{ms + i\tau - s} \sin(nx + ne^{-s}) dx. \quad (19)$$

are valid. The time dependence of the phase of the voltage acting upon the particles leads to a shift of the voltage frequency by $\Delta\omega(t) = d\varphi/dt$. It can easily be shown that at $x \rightarrow 0$ the functions D , Φ , and $\Delta\omega$ tend toward a value that corresponds to the values holding before particle injection. For $x \rightarrow \infty$ these functions tend toward values that correspond to continuous operation with a load. Variations in amplitude, frequency, and phase of the accelerating voltage lead to deviations of the beam parameters from the rated values. These deviations are largely dependent on the current strength of the particles. The frequency

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B104/B205

Transition processes in an...

deviation of the accelerating voltage leads to a variation in the radius of the equilibrium orbit of the particles. This may lead to a complete loss of the beam. The frequency shift limits the particle currents if no precautionary measures are taken. Small particle currents do not lead to any significant frequency shifts. These results have been obtained without accounting for the effects of these processes upon the beam.

Yu. F. Orlov, A. G. Sal'man, and S. K. Yesin are thanked for valuable comments and their interest in the work, as well as V. S. Pogosyan and B. M. Teryan for numerical computations. V. V. Yekimov is mentioned. There are 5 figures and 1 Soviet-bloc reference. ✓

SUBMITTED: May 16, 1960

Card 5/5

35h73
S/109/62/007/003/016/029
D256/D302

24.6730
AUTHORS: Baryshev, A.I., and Kheyrets, S.A.
TITLE: Influence of a beam in an electron accelerator upon
the accelerating system
PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 3, 1962,
483 - 490

TEXT: The electric field generated by the beam of electrons of modern high-energy accelerators as a rule impedes the acceleration, being shifted in phase against the accelerating voltage and changing the load conditions of the external generator. In certain circumstances the energy output of the generator is transferred to excite undesired harmonic oscillations, increasing considerably the required power output and causing excessive thermal losses in the resonators. The authors investigate the effect of excitations of a cylindrical resonator by a beam of relativistic electrons and examine its influence on the performance of the generator. Formulas expressing the amplitude and the phase of the voltage generated by

Card 1/2

Influence of a beam in an ...

S/109/62/007/003/016/029
D256/D302

the beam are derived, assuming a constant velocity of electrons and uniform density of particles along the bunch, the transverse component of the velocity being neglected. It is shown that a beam of circular cross-section travelling axially along the cylindrical resonator can generate E_{m10} -type oscillations; however, for non-circular cross-section of the beam oscillations with $n \neq 0$ will also occur, mainly with $n = 1$. For the resonant harmonic the maximum of the voltage generated by the beam coincides with the moment when the center of the particle bunch crosses the center of the resonator. Based upon an equivalent diagram the effect on the system of the oscillation generated by the electrons is considered. Formulas for modulation of the external generator are derived expressing the modulus and the phase of the voltage applied across the load necessary to obtain the required accelerating voltage in the presence of the voltage generated by the beam. It is pointed out that the phase oscillations were taken into account. There are 4 figures and 2 Soviet-bloc references.

SUBMITTED: May 15, 1961

Card 2/2

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203810011-5

S/057/63/033/003/010/021
P104/P180

APPROVED FOR RELEASE: 06/06/2000

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"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203810011-5

APPROVED FOR RELEASE: 06/06/2000

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L 18353-63 EWT(m)/BDS/ES(m)-2 AFFTC/ASD/SSD Pub-4

ACCESSION NR: AP3003962

S/0057/63/033/007/0882/0883

AUTHOR: Bary*shav, A. I. 58

TITLE: Phase vibration damping as a result of the interaction of particles with an accelerating system 19

SOURCE: Zhurnal tekhnicheskoy fiziki, v.33, no.7, 1963, 882-883

TOPIC TAGS: accelerator, phase vibration

ABSTRACT: The electromagnetic field induced in an accelerator by the particle beam affects the motions of the particles. The influence of the induced field on the motion of the center of gravity of a particle bunch has been discussed earlier (A. I. Bary*shav, S. A. Kheyfets, ZhTF, 33, No. 3, 1963). Since the induced field is excited by coherent radiation, it can be expected to have no effect on the incoherent motions of the particles. This conjecture is verified by a short calculation. The particle bunch is separated arbitrarily into two sub-bunches, and these are treated as two point particles vibrating with different phases and amplitudes but at the same frequency. The field induced in the accelerator by the vibrating sub-bunches is calculated and introduced into the differential equations for the phases of the motions.

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L 18353-63

ACCESSION NR: AP3003962

of the two sub-bunches, written in the linear approximation. When the two differential equations are subtracted, the induced field cancels out, leaving a differential equation for the phase difference between the two sub-bunches that does not involve the induced field. Orig.art.has: 8 formulas.

ASSOCIATION: none

SUBMITTED: 09Aug62

DATE ACQ: 07Aug63

ENCL: 00

SUB CODE: PH

NO REF SOV: 002

OTHER: 000

Card 2/2

BARYSHEV, A.M.

SITKOVSKIY, P.A.; KOMAROV, G.V.; BRUSENTSEV, V.F.; KREMENTSKIY, N.N.;
MAMAYEV, M.G., kand.tekhn.nauk; SMIRNOV, A.V., kand.tekhn.nauk;
AFANAS'YEV, I.V.; VOLOD'KO, I.F., kand.tekhn.nauk; BEGLYAROV, S.A.;
KONDRAT'YEV, V.V.; KARLINSKAYA, M.I.; NIKOLAYEV, M.I., kand.tekhn.
nauk; DOROKHOV, S.M.; PISHCHUROV, P.V.; KLIMENTOVA, A.V.; ROZENBLAT,
Zh.I.; FANDEYEV, V.V., kand.tekhn.nauk; KULIKOV, P.Ye.; SHIMANOVICH,
S.V.; DELITSIN, M.V., retsenzent; BRAUDE, I.D., retsenzent; BARYSHEV,
A.M.; retsenzent; GRIGORYANTS, A.S., retsenzent; IGNATYUK, G.L.,
retsenzent; KALABUGIN, A.Ya., retsenzent; KREMENTSKIY, N.D.,
retsenzent; POPOV, K.V., retsenzent; ORLOVA, V.P., red.; LETNEV,
V.Ya., red.; SOKOLOVA, N.N., tekhn.red.; FEDOTOVA, A.F., tekhn.red.

[Handbook for hydraulic and agricultural engineers] Spravochnik
gidrotekhnika melioratora. Moskva, Gos.izd-vo sel'khoz.lit-ry,
1958. 766 p. (MIRA 12:3)
(Hydraulic engineering) (Agricultural engineering)

BARYSHEV, A.M.

Machine for the lapping of 2K-78 valves. Proizv.-tekh. sbor. no.3:
109-112 '59. (MIRA 13:10)

1. Moskovskoye rechnoye parokhodstvo.
(Grinding machines) (Shipfitting)

BARYSHEV, A.N.; MAROCHKIN, A.S.

Concerning the article by G.V.Charushin, and S.I.Sherman "Two
ways of speeding up the construction process of fabric diagrams."
Sov.geol. 5 no.9:151-152 S '62. (MIRA 15:11)
(Geology—Charts, diagrams, etc.)
(Charushin, G.V.) (Sherman, S.I.)

(M) 1313260
ACC NR: AT6000824

SOURCE CODE: UR/3175/65/000/024/0137/0138

AUTHOR: Baryshev, A. S.

ORG: none

TITLE: Apparatus of the OKB [Evaluation of geophysics instruments]

SOURCE: USSR. Gosudarstvennyy geologicheskii komitet. Osoboye konstruktorskoye byuro. Geofizicheskaya apparatura, no. 24, 1965, 137-138

TOPIC TAGS: magnetometer, geophysics instrument, radiometer

ABSTRACT: Strong and weak points of instruments built by the OKB GSK SSSR and used by geophysical teams of the Vostsibneftegeofizika bureau of Irkutsk GU are discussed: M-17, ferrosone self orienting magnetometer (small measurement error but limited portability and unreliable circuitry. In need of basic modification); AM-13 aeromagnetometer (high sensitivity, efficiency and accuracy but magnetic sensing element must be towed on 40-50 m cable which limits operating altitude); ARS-21 aeronautical scintillation radiometer (sensitive and accurate but has unreliable power and sensing elements); ASG-46, universal aerogeophysical station (high sensitivity and accuracy); M-18 and M-23, high sensitivity field magnetometers (efficient, easy to operate. M-23 is a refinement of M-18); and AMM-13 aeromagnetometer (improved version of AM-13, sensitive, fast response. Equipped with magnetic disturbance compensator)

SUB CODE: 08,17/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000

Card 1/1 NW

BARYSHEV, B.V., inzh.

Assembly without cranes of an outdoor synchronous compensator
with hydrogen cooling and a capacity of 75,000 kilovolt-amperes.
Energ. stroi. no.3:96-99 (13), 1960. (MIRA 14:9)

1. Trest "TSentroelektroset'stroy".
(Condensers (Electricity))
(Electric substations)

BARYSHEV, D.I.

Hydraulic screw jack. Mashinostroitel' no.3:24 Mr '61.

(MIRA 14:3)

(Hydraulic jacks)

USSR/Electricity - Telegraph networks

Card 1/1 : Pub. 133 - 10/20

Authors : Baryshev, G. A.

Title : An experiment on the exploitation of automatic telegraph networks

Periodical : Vest. svyazi 10, page 19, Oct 54

Abstract : A narrative report is given concerning directives adopted by the Telegraph Association in Minsk, to increase the productivity of labor in 1954, by 1% as compared with 1953, by means of mechanization and automation of its telegraph networks.

Institution : ...

Submitted : ...

BARYSHEV, I.A.

Improve the standard of services Moscow residents. Gor.khoz.
Mosk. 36 no.12:30-31 D '62. (MIRA 1612)

1. Zamestitel' predsedatelya Postoyannoy komissii bytovogo
obsluzhivaniya Moskovskogo Soveta deputatov trudyashchikhsya.
(Moscow--Municipal services)

BARYSHEV, I. F.

8

PROCESSIES AND PROPERTIES INDEX

3

Experimental Melting of Steel with Oxygen Blast by Acid Bessemer Process. I. F. Baryshev and others. 17 pages. Henry Brucher, Altadena, Calif. (Translation No. 1953.) From Kislorod, v. 3, nos. 2-3, 1946. p. 18-17.

Discussion of a report by V. V. Kondakov (Translation No. 1948) includes report on 120 trial heats made in an oxygen-blown (foundry) converter since Dec. 1944, and numerical data on metal yield, oxygen consumption, waste-gas composition, and mechanical properties of steel in the cast, forged, and rolled state.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SOURCE DIVISION

RELATIONS

CLASSIFY ONE ONLY

TANDBB #4

15

M L D P M E N A X H M S R U W

15

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

BARYSHOV, I. F.

Performance of Converter Tuyeres in Operation with Oxygen Blast. I. F. Baryshov. 12 pages. Henry Bruch-er, Altadena, Calif. (Translation No. 1952.) From Kislorod, v. 8, nos. 2-3, 1946, p. 34-41.

Refractory tuyeres of fourteen different types were tested in an acid Bessemer converter operated on 100% oxygen blast. Describes composition, manufacturing process, percent porosity, and dimensions of tuyeres; conditions of the various tuyeres after one heat; and performance of the same tuyeres in a blast containing only 50% oxygen.

BARYSHEV, MIKHAIL IVANOVICH

N/5
786.1
.B2

PRAVOVOYE REGULIROVANIYE KAPITAL'NOGO STROITEL'STVA V MTS, SOVKHOZAKH,
I KOLKHOZAH (LEGAL REGULATION OF CAPITAL CONSTRUCTION ON MACHINE TRACTOR
STATIONS, STATE FARMS, AND COLLECTIVE FARMS) MOSKVA, GOSYRIZDAT, 1956.

102 P.

KOVYRYALOV, Yu.P.; PANSIN, I.A., dotsent; MOROZOVA, A.M., agronom;
BARYSHEV, M.V., agronom; DMITRIYEV, N.I., agronom

One of the problems in the reclamation of the Volga-Akhtuba
floodland. Zashch. rast. ot vred. i bol. 6 no.5:7-8 My '61.

(MIRA 15:6)

1. Sekretar' Sredne-Akhtubinskogo rayonnogo komiteta Kommunisti-
cheskoy partii Sovetskogo Soyuza (for Kovyryalov). 2.
Zavoduyushchiy kafedroy zoologii i entomologii Stalingradskogo
sel'skokhozyaystvennogo instituta (for Panshin).
(Volga-Akhtuba flood plain—Fruit—Diseases and pests)

23110

24. 7700 (1136, 1138, 1158)
26. 2421

S/181/61/003/005/015/042
B101/B214

AUTHOR: Baryshev, N. S.

TITLE: Emission recombination of holes and electrons in PbS, PbSe and PbTe

PERIODICAL: Fizika tverdogo tela, v. 3, no. 5, 1961, 1428 - 1430

TEXT: Starting from the work of W. van Roosbroeck and W. Shockley (Ref. 1, see below), the temperature dependence of emission recombination in semiconductors of the PbS group was calculated. According to Ref. 1 the total recombination rate is given by:

$$R = 32\pi^2 c \left(\frac{kT}{ch} \right)^3 \int_{u_0}^{\infty} \frac{n^3 x u^3 du}{e^u - 1} \quad (1)$$

n is the refractive index, $u \equiv h\nu/kT$, x the absorption index connected with the absorption coefficients α by the relation $\alpha = 4\pi n x \nu/c$. The long wave edge of the absorption band is taken as u_0 . The proper lifetime is given

by $\tau_1 = n_1/2R$, (2), where
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